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STATE DOCUMENTS

ANALYSIS OF CONTRACTS AWARDED
CALENDAR YEAR 1975

PREPARED BY THE

STATE OF MONTANA
DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

IN COOPERATION WITH THE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

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CONTRACT ANALYSES
Calendar Year 1975

FOREWARD

The attached tabulations have been prepared from the Detailed Estimate and Contract Award sheet for all contracts awarded during the calendar year. A brief explanation of each of the following tables is provided to help in the interpretation of the figures and to lessen the possibility of erroneous conclusions.

Table 1 - Summary of New and Reconstructed Roadway only, by County and Financial District.

This table is intended to inform the user of how many actual miles of roadway were let to contract and the costs involved. It includes all items pertinent to the same section of roadway except structures.

Table 1A- Summary of Total Amounts Awarded by County and Financial District.

This table is a total of all miles and costs involved regardless of the type of project. Besides roadway costs, it includes signing, lighting, fencing and bridge projects.

Table 2 - Summary of Roadway Mileage Awarded by Systems.

The table involves the same type of construction as Table 1. Table 2, however, provides a cost per mile figure for the different systems and also provides a simple analysis of benefits by inclusion of the "cost per annual vehicle mile."

Table 3-3A-3B-3C-3D-3E - Summary of Type of Construction.

A separate table has been prepared for each Federal Aid System with all projects classified into 16 different categories. The purpose of this table is to give a general indication of what type of construction is responsible for the major share of monies spent. For example, note the bulk of Interstate monies is spent for New Construction, whereas, the greater share for Primary and Secondary is spent for Reconstruction.

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Table 4-4A-4B-4C-4D-4E- Summary by Surface Type by Systems.

These tables indicate the average cost per mile of various items included in a completed roadway by type of surfacing. Caution should be exercised in using the average cost per mile data due to the small sample involved for some cost items. Any cost figure appearing under stage construction bridges is informational only. Bridge stage construction costs are not reflected in the cost per mile or cost per square foot of structures in this table.

Table 5 - Summary of Roadway Mileage Awarded by Number of Traffic Lanes.

This table deals with the same miles and costs involved in Tables 1 and 2.

Table 6-6A-6B-6C-6D-6E - Summary of Structures by Type.

These tables summarize the number of structures let by type and also provide a cost per square foot, by type of structure.

Table 7 - Summary of Contracted and Non-contracted Costs by System.

The non-contracted figure reflects engineering costs only. In some instances contingency costs such as flagging, roadway materials, training etc.,is added to a contract but these costs are not reflected in this table.

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF ROADWAY MILEAGE AWARDED
BY COUNTY AND FINANCIAL DISTRICT
DURING CALENDAR YEAR 1975

THIS TABLE SUMMARIZES ONLY NEW OR RECONSTRUCTED ROADWAY. REFER TO TABLE 1A FOR THE TOTAL AMOUNTS OF CONTRACTS AWARDED

APRIL 21, 1976

TABLE 1

COUNTY AND FINANCIAL DISTRICT	INTERSTATE SYSTEM		PRIMARY SYSTEM		URBAN EXTENSION		SECONDARY SYSTEM		F.A. URBAN		OTHER SYSTEMS		ALL SYSTEMS	
	MILES	COST	MILES	COST	MILES	COST	MILES	COST	MILES	COST	MILES	COST	MILES	COST
LAKE							5.380	1,235,512					5.380	1,235,512
LINCOLN	-------	-----------	8.411	2,489,168	-------	-----------	-------	-----------	-------	-----------	-------	-----------	8.411	2,489,168
FD #01			8.411	2,489,168			5.380	1,235,512					13.791	3,724,680
HILL							.370	194,544	.841	576,647			1.211	771,191
LIBERTY	-------	-----------	11.503	3,623,632	-------	-----------	-------	-----------	-------	-----------	-------	-----------	11.503	3,623,632
FD #02			11.503	3,623,632			.370	194,544	.841	576,647			12.714	4,394,823
PHILLIPS	-------	-----------	.266	301,665	-------	-----------	-------	-----------	-------	-----------	-------	-----------	.266	301,665
FD #03			.266	301,665									.266	301,665
DAWSON	6.163	3,778,629	9.622	1,463,267									15.785	5,241,896
RICHLAND	-------	-----------	2.600	538,935	-------	-----------	-------	-----------	-------	-----------	-------	-----------	2.600	538,935
FD #04	6.163	3,778,629	12.222	2,002,202									18.385	5,780,831
GARFIELD	-------	-----------	4.337	743,455	-------	-----------	-------	-----------	-------	-----------	-------	-----------	4.337	743,455
FD #05			4.337	743,455									4.337	743,455
CASCADE									.264	132,921			.264	132,921
PONDERA	10.547	3,161,755											10.547	3,161,755
TETON	3.857	2,105,135	-------	-----------	-------	-----------	-------	-----------	-------	-----------	-------	-----------	3.857	2,105,135
FD #06	14.404	5,266,890							.264	132,921			14.668	5,399,811
JEFFERSON	6.277	3,720,306					.869	200,684					7.146	3,920,990
LEWIS & CLARK	-------	-----------	2.263	2,093,923	-------	-----------	-------	-----------	-------	-----------	-------	-----------	2.263	2,093,923
FD #07	6.277	3,720,306	2.263	2,093,923			.869	200,684					9.409	6,014,913
POWELL	-------	-----------	.308	139,268	-------	-----------	-------	-----------	-------	-----------	-------	-----------	.308	139,268
FD #08			.308	139,268									.308	139,268
MADISON			5.908	1,485,607									5.908	1,485,607
SILVER BOW	.147	85,130	-------	-----------	-------	-----------	-------	-----------	-------	-----------	-------	-----------	.147	85,130
FD #09	.147	85,130	5.908	1,485,607									6.055	1,570,737
GALLATIN			1.444	387,268									1.444	387,268
PARK	5.543	5,168,601											5.543	5,168,601
SWEET GRASS	-------	-----------	-------	-----------	-------	-----------	.375	304,686	-------	-----------	-------	-----------	.375	304,686
FD #10	5.543	5,168,601	1.444	387,268			.375	304,686					7.362	5,860,555

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF ROADWAY MILEAGE AWARDED
BY COUNTY AND FINANCIAL DISTRICT
DURING CALENDAR YEAR 1975

THIS TABLE SUMMARIZES ONLY NEW OR RECONSTRUCTED ROADWAY. REFER TO TABLE 1A FOR THE TOTAL AMOUNTS OF CONTRACTS AWARDED

APRIL 21, 1976

TABLE 1

COUNTY AND FINANCIAL DISTRICT	INTERSTATE SYSTEM		PRIMARY SYSTEM		URBAN EXTENSION		SECONDARY SYSTEM		F.A. URBAN		OTHER SYSTEMS		ALL SYSTEMS	
	MILES	COST	MILES	COST	MILES	COST	MILES	COST	MILES	COST	MILES	COST	MILES	COST
BIG HORN			5.843	2,258,755									5.843	2,258,755
STILLWATER	5.903	2,797,498					4.328	1,263,259					10.231	4,060,757
TREASURE	17.582	4,388,417											17.582	4,388,417
FD #11	23.483	7,185,915	5.843	2,258,755			4.328	1,263,259					33.654	10,707,929
CARTER							4.301	863,508					4.301	863,508
CUSTER							6.000	1,146,721					6.000	1,146,721
POWDER RIVER			5.500	1,265,867									5.500	1,265,867
ROSEBUD	5.632	1,767,658											5.632	1,767,658
FD #12	5.630	1,767,658	5.500	1,265,867			10.301	2,010,229					21.431	5,043,754
TOTAL	61.647	26,973,179	58.005	15,790,810			22.123	5,208,914	1.105	709,568			142.880	49,682,471

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU
SUMMARY OF TOTAL AMOUNTS AWARDED
BY COUNTY AND FINANCIAL DISTRICT
DURING CALENDAR YEAR 1975
TABLE 1A

APRIL 21, 1976

COUNTY AND FINANCIAL DISTRICT	INTERSTATE SYSTEM MILES	INTERSTATE SYSTEM COST	PRIMARY SYSTEM MILES	PRIMARY SYSTEM COST	URBAN EXTENSION MILES	URBAN EXTENSION COST	SECONDARY SYSTEM MILES	SECONDARY SYSTEM COST	F.A. URBAN MILES	F.A. URBAN COST	OTHER SYSTEMS MILES	OTHER SYSTEMS COST	ALL SYSTEMS MILES	ALL SYSTEMS COST
FLATHEAD				2,124,781										2,124,781
LAKE				16,732			5.380	1,235,512					5.380	1,252,244
LINCOLN			3.411	3,030,577									3.411	3,030,577
FD #01			8.411	5,172,090			5.380	1,235,512					13.791	6,407,602
HILL				7,800			10.525	675,291	.841	576,647			11.366	1,259,738
LIBERTY			11.503	3,623,632									11.503	3,623,632
TOOLE	7.310	3,588,237											7.810	3,588,237
FD #02	7.310	3,588,237	11.503	3,631,432			10.525	675,291	.841	576,647			30.679	8,471,607
DANIELS				20,550										20,550
PHILLIPS			.266	398,361									.266	398,361
ROOSEVELT				70,650			13.500	413,734					13.500	484,384
VALLEY				21,307				34,900						56,207
FD #03			.266	510,868			13.500	448,634					13.766	959,502
DAWSON	6.153	4,703,818	9.632	1,463,267									15.785	6,167,085
PRAIRIE		3,334,000												3,334,000
RICHLAND			2.600	538,935									2.600	538,935
WIBAUX							4.535	504,002					4.535	504,002
FD #04	6.153	8,037,818	12.222	2,002,202			4.535	504,002					22.320	10,544,022
FERGUS				111,833										111,833
GARFIELD			4.337	871,851									4.337	871,851
FD #05			4.337	983,684									4.337	983,684
CASCADE						54,321			.264	372,530			.264	426,851
PONDERA	10.547	3,428,252											10.547	3,428,252
TETON	3.857	2,419,380											3.857	2,419,380
FD #06	14.404	5,847,632				54,321			.264	372,530			14.668	6,274,483
BROADWATER							12.900	447,165					12.900	447,165
JEFFERSON	6.277	3,720,306					.869	200,684					7.146	3,920,990
LEWIS & CLARK			2.263	2,097,377		105,854							2.263	2,203,231
FD #07	6.277	3,720,306	2.263	2,097,377		105,854	13.769	647,849					22.309	6,571,386
GRANITE				51,153										51,153
MINERAL	10.735	9,074,673											10.735	9,074,673
MISSOULA				16,920				12,542		209,805				239,267
POWELL			.308	139,268									.308	139,268
SANDERS			3.600	469,251			10.000	746,732					13.600	1,215,983
FD #08	10.735	9,074,673	3.908	676,592			10.000	759,274		209,805			24.643	10,720,344

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU
SUMMARY OF TOTAL AMOUNTS AWARDED
BY COUNTY AND FINANCIAL DISTRICT
DURING CALENDAR YEAR 1975
TABLE 1A

APRIL 21, 1976

COUNTY AND FINANCIAL DISTRICT	INTERSTATE SYSTEM		PRIMARY SYSTEM		URBAN EXTENSION		SECONDARY SYSTEM		F.A. URBAN		OTHER SYSTEMS		ALL SYSTEMS	
	MILES	COST	MILES	COST	MILES	COST	MILES	COST	MILES	COST	MILES	COST	MILES	COST
BEAVERHEAD				182,040										182,040
DEER LODGE		1,088,698		9,090				155,453						1,253,241
MADISON			5.908	1,485,607									5.908	1,485,607
SILVER BOW	3.261	3,846,124	.678	161,078						87,933			8.739	4,095,135
FD #09	3.061	4,934,822	6.586	1,837,815	-------	-----------	-------	155,453	-------	87,933	-------	-----------	14.647	7,016,023
GALLATIN	.000	770,510	1.444	387,268						24,939			2.044	1,182,717
PARK	5.543	5,726,500											5.543	5,726,500
SWEET GRASS							.875	532,140					.875	532,140
WHEATLAND				7,607										7,607
FD #10	6.143	6,497,010	1.444	394,875	-------	-----------	.875	532,140	-------	24,939	-------	-----------	8.462	7,448,964
BIG HORN	9.100	4,310,387	5.843	2,258,755								373,490	14.943	6,942,632
CARBON				8,901										8,901
GOLDEN VALLEY				4,790										4,790
MUSSELSHELL							6.500	135,293					6.500	135,293
STILLWATER	5.903	3,301,186					4.328	1,354,015					10.231	4,655,201
TREASURE	17.530	5,639,885											17.580	5,639,885
YELLOWSTONE		329,159		33,127						244,753				607,039
FD #11	32.583	13,580,617	5.843	2,305,573	-------	-----------	10.828	1,489,308	-------	244,753	-------	373,490	49.254	17,993,741
CARTER							4.301	863,508					4.301	863,508
CUSTER							6.000	1,146,721		24,447			6.000	1,171,168
POWDER RIVER			5.500	1,696,009									5.500	1,696,009
ROSEBUD	5.778	2,603,650	5.100	229,210									10.878	2,832,860
FD #12	5.778	2,603,650	10.600	1,925,219	-------	-----------	10.301	2,010,229	-------	24,447	-------	-----------	26.679	6,563,545
TOTAL	97.954	57,884,765	67.383	21,537,727		160,175	79.715	8,457,692	1.105	1,541,054		373,490	246.155	89,954,903

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF ROADWAY MILEAGE AWARDED BY SYSTEMS
DURING CALENDAR YEAR 1975
THIS TABLE SUMMARIZES ONLY NEW OR RECONSTRUCTED ROADWAYS
TABLE 2

APRIL 21, 1976

SYSTEM	MILEAGE	TOTAL COST	COST PER MILE	ANNUAL VEHICLE MILES	COST PER ANNUAL VEHICLE MILE
RURAL					
INTERSTATE RURAL	61.647	26,973,179	437,542		00.000
PRIMARY RURAL	58.005	16,790,810	289,471		00.000
SECONDARY RURAL	22.123	5,208,914	235,452		00.000
OTHER					00.000
SUBTOTAL RURAL	141.775	48,972,903	345,426		00.000
URBAN					
INTERSTATE URBAN					00.000
URBAN EXTENSION					00.000
FA URBAN	1.105	709,568	642,142		00.000
OTHER					00.000
SUBTOTAL URBAN	1.105	709,568	642,142		00.000
GRAND TOTAL	142.880	49,682,471	347,721		00.000

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF TYPE OF CONSTRUCTION
DURING CALENDAR YEAR 1975
BY SYSTEM
TABLE 3

APRIL 21, 1976

TYPE OF CONSTRUCTION	INTERSTATE	
	MILES	COST
ALL CONSTRUCTION		
NEW CONSTRUCTION	26.597	16,279,474
RECONSTRUCTION		
ADD TWO LANES	35.050	10,693,705
MAJOR STRUCTURES		7,373,194
RESURFACE	3.700	361,899
STAGE CONSTRUCTION, ROADWAY	32.607	14,029,345
TRAFFIC CONTROL		710,628
REST AREA		377,476
WIDENING ROADWAY		
STAGE CONSTRUCTION, MAJOR STRUCTURES		5,622,238
SAFETY		2,323,455
LANDSCAPING		6,851
FENCING		
SEAL AND COVER		
WEIGH STN & SCENIC OVERLOOK		
OTHER		106,500
TOTAL		57,884,765

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF TYPE OF CONSTRUCTION DURING CALENDAR YEAR 1975 BY SYSTEM

TABLE 3A

APRIL 21, 1976

TYPE OF CONSTRUCTION	PRIMARY RURAL	
	MILES	COST
RURAL		
NEW CONSTRUCTION		
RECONSTRUCTION	58.005	16,790,810
ADD TWO LANES		
MAJOR STRUCTURES		2,700,552
RESURFACE	8.700	632,988
STAGE CONSTRUCTION, ROADWAY	.678	161,078
TRAFFIC CONTROL		391,147
REST AREA		
WIDENING ROADWAY		
STAGE CONSTRUCTION, MAJOR STRUCTURES		
SAFETY		7,800
LANDSCAPING		
FENCING		197,716
SEAL AND COVER		
WEIGH STN & SCENIC OVERLOOK		
OTHER		655,636
TOTAL		21,537,727

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF TYPE OF CONSTRUCTION DURING CALENDAR YEAR 1975 BY SYSTEM

TABLE 3B

APRIL 21, 1976

TYPE OF CONSTRUCTION	URBAN EXTENSION	
	MILES	COST
URBAN		
NEW CONSTRUCTION		
RECONSTRUCTION		
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE		
STAGE CONSTRUCTION, ROADWAY		
TRAFFIC CONTROL		160,175
REST AREA		
WIDENING ROADWAY		
STAGE CONSTRUCTION, MAJOR STRUCTURES		
SAFETY		
LANDSCAPING		
FENCING		
SEAL AND COVER		
WEIGH STN & SCENIC OVERLOOK		
OTHER		
TOTAL		160,175

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF TYPE OF CONSTRUCTION DURING CALENDAR YEAR 1975 BY SYSTEM

TABLE 3C

APRIL 21, 1976

TYPE OF CONSTRUCTION	SECONDARY RURAL	
	MILES	COST
RURAL		
NEW CONSTRUCTION	.875	304,686
RECONSTRUCTION	21.248	4,904,228
ADD TWO LANES		
MAJOR STRUCTURES		590,934
RESURFACE	46.555	1,957,664
STAGE CONSTRUCTION, ROADWAY	11.035	639,295
TRAFFIC CONTROL		12,542
REST AREA		
WIDENING ROADWAY		
STAGE CONSTRUCTION, MAJOR STRUCTURES		
SAFETY		
LANDSCAPING		
FENCING		
SEAL AND COVER		
WEIGH STN & SCENIC OVERLOOK		
OTHER		48,343
TOTAL		8,457,692

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF TYPE OF CONSTRUCTION DURING CALENDAR YEAR 1975 BY SYSTEM
TABLE 3D

APRIL 21, 1976

TYPE OF CONSTRUCTION	F.A. URBAN	
	MILES	COST
URBAN		
NEW CONSTRUCTION	.264	132,921
RECONSTRUCTION	.841	576,647
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE		
STAGE CONSTRUCTION, ROADWAY		
TRAFFIC CONTROL		591,877
REST AREA		
WIDENING ROADWAY		
STAGE CONSTRUCTION, MAJOR STRUCTURES		
SAFETY		
LANDSCAPING		
FENCING		
SEAL AND COVER		
WEIGH STN & SCENIC OVERLOOK		
OTHER		239,609
TOTAL		1,541,054

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF TYPE OF CONSTRUCTION
DURING CALENDAR YEAR 1975
BY SYSTEM
TABLE 3E

APRIL 21, 1976

TYPE OF CONSTRUCTION	OTHER	
	MILES	COST
RURAL		
NEW CONSTRUCTION		
RECONSTRUCTION		
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE		
STAGE CONSTRUCTION, ROADWAY		
TRAFFIC CONTROL		
REST AREA		
WIDENING ROADWAY		
STAGE CONSTRUCTION, MAJOR STRUCTURES		
SAFETY		
LANDSCAPING		
FENCING		
SEAL AND COVER		
WEIGH STN & SCENIC OVERLOOK		
OTHER		373,490
TOTAL		373,490

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF TYPE OF CONSTRUCTION
DURING CALENDAR YEAR 1975
BY SYSTEM
TABLE 2F

APRIL 21, 1976

	OTHER	
TYPE OF CONSTRUCTION	MILES	COST
URBAN		
NEW CONSTRUCTION		
RECONSTRUCTION		
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE		
STAGE CONSTRUCTION, ROADWAY		
TRAFFIC CONTROL		
REST AREA		
WIDENING ROADWAY		
STAGE CONSTRUCTION, MAJOR STRUCTURES		
SAFETY		
LANDSCAPING		
FENCING		
SEAL AND COVER		
WEIGH STN & SCENIC OVERLOOK		
OTHER		
TOTAL		

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF TYPE OF CONSTRUCTION DURING CALENDAR YEAR 1975 BY SYSTEM

TABLE 3G

APRIL 21, 1976

TYPE OF CONSTRUCTION	OTHER	
	MILES	COST
ALL CONSTRUCTION		
NEW CONSTRUCTION		
RECONSTRUCTION		
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE		
STAGE CONSTRUCTION, ROADWAY		
TRAFFIC CONTROL		
REST AREA		
WIDENING ROADWAY		
STAGE CONSTRUCTION, MAJOR STRUCTURES		
SAFETY		
LANDSCAPING		
FENCING		
SEAL AND COVER		
WEIGH STN & SCENIC OVERLOOK		
OTHER		373,490
TOTAL		373,490

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY BY SURFACE TYPE
DURING CALENDAR YEAR 1975

TABLE 4

INTERSTATE SYSTEM

APRIL 21, 1976

COST ITEM		STAGE CONSTR. (GRAVEL)	SURFACE TYPE BITUM. MIX	CONCRETE	MISC. ITEMS
GRADING	MILES	8.558	75.961	10.735	
	COST	1,862,397	10,015,639	129,724	344,992
	COST/MILE	217,620	131,852	12,084	
DRAINAGE	MILES	8.558	75.961	10.735	
	COST	513,124	2,788,745	22,114	209,497
	COST/MILE	59,958	36,712	2,059	
FOUNDATION	MILES	7.810	75.961	10.735	
	COST	171,649	5,532,009	270,865	53,420
	COST/MILE	21,978	72,826	25,231	
SURFACING	MILES	8.410	78.661	10.735	
	COST	86,383	9,495,945	4,186,645	157,207
	COST/MILE	10,271	120,719	389,999	
RDSIDE DEVEL.	MILES			10.735	
	COST		15,000	585	353,811
	COST/MILE			54	
EROSION CTL.	MILES	8.558	77.661	10.735	
	COST	301,639	1,491,937	75,870	358,303
	COST/MILE	35,246	19,210	7,067	
TRAFFIC CTL.	MILES	8.558	78.661	10.735	
	COST	91,462	1,393,399	365,806	1,813,514
	COST/MILE	10,687	17,713	34,076	
FENCING	MILES	8.558	67.047	10.735	
	COST	110,799	799,229	21,968	62,757
	COST/MILE	12,946	11,920	2,046	
MISC.	MILES	8.558	75.961	10.735	
	COST	95,050	1,264,449	302,575	130,825
	COST/MILE	11,106	16,646	28,185	
BRIDGES	SQ. FEET				217,229
	COST	5,622,238			7,373,194
	COST/SQ. FOOT				33.942
ALL ITEMS	MILES	8.558	78.661	10.735	
	COST	3,232,503	32,796,352	5,376,152	10,857,520
	COST/MILE	377,717	416,932	500,805	

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY BY SURFACE TYPE
DURING CALENDAR YEAR 1975

TABLE 4A PRIMARY SYSTEM APRIL 21, 1976

COST ITEM		SURFACE TYPE			MISC. ITEMS
		GRAVEL	BITUM. MIX	CONCRETE	
GRADING	MILES		67.383		
	COST		4,648,942		9,664
	COST/MILE		68,992		
DRAINAGE	MILES		58.683		
	COST		2,046,124		
	COST/MILE		34,867		
FOUNDATION	MILES		62.283		
	COST		3,250,561		
	COST/MILE		52,190		
SURFACING	MILES		67.383		
	COST		5,037,519		
	COST/MILE		74,759		
RDSIDE DEVEL.	MILES		28.911		
	COST		125,758		22,851
	COST/MILE		4,349		
EROSION CTL.	MILES		67.383		
	COST		808,807		620
	COST/MILE		12,003		
TRAFFIC CTL.	MILES		67.383		
	COST		818,599		437,019
	COST/MILE		12,148		
FENCING	MILES		57.431		
	COST		356,206		188,572
	COST/MILE		6,202		
MISC.	MILES		67.383		
	COST		1,017,023		68,910
	COST/MILE		15,093		
BRIDGES	SQ. FEET				72,160
	COST				2,700,552
	COST/SQ. FOOT				37.424
ALL ITEMS	MILES		67.383		
	COST		18,109,539		3,428,188
	COST/MILE		268,755		

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY BY SURFACE TYPE
DURING CALENDAR YEAR 1975

TABLE 4B

URBAN EXTENSION

APRIL 21, 1976

COST ITEM		GRAVEL	SURFACE TYPE BITUM. MIX	CONCRETE	MISC. ITEMS
GRADING	MILES				
	COST				216
	COST/MILE				
DRAINAGE	MILES				
	COST				4,427
	COST/MILE				
FOUNDATION	MILES				
	COST				644
	COST/MILE				
SURFACING	MILES				
	COST				1,406
	COST/MILE				
RDSIDE DEVEL.	MILES				
	COST				140
	COST/MILE				
TRAFFIC CTL.	MILES				
	COST				151,092
	COST/MILE				
MISC.	MILES				
	COST				2,250
	COST/MILE				
BRIDGES	SQ. FEET				
	COST				
	COST/SQ. FOOT				
ALL ITEMS	MILES				
	COST				160,175
	COST/MILE				

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY BY SURFACE TYPE
DURING CALENDAR YEAR 1975

TABLE 4C SECONDARY SYSTEM APRIL 21, 1976

COST ITEM		SURFACE TYPE			MISC. ITEMS
		GRAVEL	BITUM. MIX	CONCRETE	
GRADING	MILES	11.035	65.178		
	COST	293,330	1,716,891		2,424
	COST/MILE	26,581	26,341		
DRAINAGE	MILES	11.035	51.678		
	COST	77,615	534,881		
	COST/MILE	7,033	10,350		
FOUNDATION	MILES	11.035	68.678		
	COST	61,440	906,116		
	COST/MILE	5,567	13,193		
SURFACING	MILES	6.500	68.678		
	COST	101,773	2,787,125		
	COST/MILE	15,657	40,582		
EROSION CTL.	MILES	11.035	68.678		
	COST	54,320	265,085		12,519
	COST/MILE	4,922	3,859		
TRAFFIC CTL.	MILES	11.035	68.678		
	COST	7,094	264,585		22,292
	COST/MILE	642	3,852		
FENCING	MILES	4.535	31.403		
	COST	20,923	232,195		
	COST/MILE	4,613	7,394		
MISC.	MILES	11.035	68.678		
	COST	22,800	459,700		23,650
	COST/MILE	2,066	6,693		
BRIDGES	SQ. FEET				15,238
	COST				590,934
	COST/SQ. FOOT				38.780
ALL ITEMS	MILES	11.035	68.678		
	COST	639,295	7,166,578		651,819
	COST/MILE	57,933	104,350		

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY BY SURFACE TYPE
DURING CALENDAR YEAR 1975

TABLE 4D

F.A. URBAN

APRIL 21, 1976

COST ITEM		SURFACE TYPE GRAVEL	BITUM. MIX	CONCRETE	MISC. ITEMS
GRADING	MILES		1.105		
	COST		89,732		21,985
	COST/MILE		81,205		
DRAINAGE	MILES		1.105		
	COST		239,169		217,668
	COST/MILE		216,442		
FOUNDATION	MILES		1.105		
	COST		156,774		98,975
	COST/MILE		141,876		
SURFACING	MILES		1.105		
	COST		142,828		23,822
	COST/MILE		129,256		
RDSIDE DEVEL.	MILES		.841		
	COST		29,064		1,760
	COST/MILE		34,558		
EROSION CTL.	MILES		1.105		
	COST		17,058		500
	COST/MILE		15,437		
TRAFFIC CTL.	MILES		1.105		
	COST		86,289		369,393
	COST/MILE		78,089		
FENCING	MILES		.841		
	COST		945		
	COST/MILE		1,123		
MISC.	MILES		1.105		
	COST		35,642		9,450
	COST/MILE		32,255		
BRIDGES	SQ. FEET				
	COST				
	COST/SQ. FOOT				
ALL ITEMS	MILES		1.105		
	COST		797,501		743,553
	COST/MILE		721,720		

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY BY SURFACE TYPE
DURING CALENDAR YEAR 1975
TABLE 4E OTHER APRIL 21, 1976

COST ITEM			SURFACE TYPE		MISC. ITEMS
		GRAVEL	BITUM. MIX	CONCRETE	
GRADING	MILES				
	COST		4,200		
	COST/MILE				
FOUNDATION	MILES				
	COST		109,029		
	COST/MILE				
SURFACING	MILES				
	COST		235,596		
	COST/MILE				
EROSION CTL.	MILES				
	COST		500		
	COST/MILE				
TRAFFIC CTL.	MILES				
	COST		9,165		
	COST/MILE				
MISC.	MILES				
	COST		15,000		
	COST/MILE				
BRIDGES	SQ. FEET				
	COST				
	COST/SQ. FOOT				
ALL ITEMS	MILES				
	COST		373,490		
	COST/MILE				

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF ROADWAY MILEAGE AWARDED BY NUMBER OF TRAFFIC LANES DURING CALENDAR YEAR 1975

TABLE 5

APRIL 21, 1976

NO. LANES	MILES	COST	COST/MILE
INTERSTATE SYSTEM			
2			
4	61.647	26,973,179	437,542
TOTAL	61.647	26,973,179	437,542
PRIMARY SYSTEM			
2	48.797	12,609,879	258,415
4	9.208	4,180,931	454,054
TOTAL	58.005	16,790,810	289,471
SECONDARY SYSTEM			
2	22.123	5,208,914	235,452
4			
TOTAL	22.123	5,208,914	235,452
F. A. URBAN			
2	1.105	709,568	642,142
4			
TOTAL	1.105	709,568	642,142
ALL SYSTEMS			
2	72.025	18,528,361	257,249
4	70.855	31,154,110	439,688
TOTAL	142.880	49,682,471	347,721

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU
SUMMARY OF STRUCTURES BY TYPE
DURING CALENDAR YEAR 1975

TABLE 6 INTERSTATE SYSTEM APRIL 21, 1976

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
CONC. SLAB	X020	1	9,990	366,645	36.701
	X220	3	12,276	515,584	41.999
STEEL-CONC. GIRD	X041 STAGE	1		3,334,000	
COMP. S/C GIRD.	X071	1	22,890	1,084,707	47.387
	X371 STAGE	1		2,288,238	
CONC. PRESTR. GIRD.	X081	3	17,729	462,432	26.083
	X181	1	11,928	351,638	29.480
	X281	8	80,430	2,332,460	28.999
	X781	8	61,986	2,259,728	36.455
TOTALS: INCLUDES STAGE		27		12,995,432	
TOTALS: EXCLUDES STAGE		25	217,229	7,373,194	33.942
TOTAL BRIDGE STAGE		2		5,622,238	

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU
SUMMARY OF STRUCTURES BY TYPE
DURING CALENDAR YEAR 1975

TABLE 6A PRIMARY SYSTEM APRIL 21, 1976

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
COMP. S/C GIRD.	X071	1	5,368	209,095	38.952
CONC. PRESTR. GIRD.	X081	4	66,792	2,491,457	37.301
TOTALS: INCLUDES STAGE		5		2,700,552	
TOTALS: EXCLUDES STAGE		5	72,160	2,700,552	37.424
TOTAL BRIDGE STAGE					

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU
SUMMARY OF STRUCTURES BY TYPE
DURING CALENDAR YEAR 1975

TABLE 6C SECONDARY SYSTEM APRIL 21, 1976

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
CONC. PRESTR. GIRD.	X081	4	15,238	590,934	38.780
TOTALS: INCLUDES STAGE		4		590,934	
TOTALS: EXCLUDES STAGE		4	15,238	590,934	38.780
TOTAL BRIDGE STAGE					

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU
SUMMARY OF STRUCTURES BY TYPE
DURING CALENDAR YEAR 1975

TABLE 6E ALL SYSTEMS APRIL 21, 1976

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
CONC. SLAB	X020	1	9,990	366,645	36.701
	X220	3	12,276	515,584	41.999
STEEL-CONC. GIRD	X041 STAGE	1		3,334,000	
COMP. S/C GIRD.	X071	2	28,258	1,293,802	45.785
	X371 STAGE	1		2,288,238	
CONC. PRESTR. GIRD.	X081	11	99,759	3,544,823	35.533
	X181	1	11,928	351,638	29.480
	X281	8	80,430	2,332,460	28.999
	X781	8	61,986	2,259,728	36.455
TOTALS: INCLUDES STAGE		36		16,286,918	
TOTALS: EXCLUDES STAGE		34	304,627	10,664,680	35.008
TOTAL BRIDGE STAGE		2		5,622,238	

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF CONTRACTED AND NON-CONTRACTED COSTS BY SYSTEM DURING CALENDAR YEAR 1975

TABLE 7

APRIL 21, 1976

SYSTEM	CONTRACTED COST	NON CONTRACTED COST	TOTAL
INTERSTATE	$ 57,884,765	$ 5,798,335	$ 63,683,100
PRIMARY	$ 21,537,727	$ 3,231,626	$ 24,769,353
URBAN EXTENSION	$ 160,175	$ 24,023	$ 184,198
SECONDARY	$ 8,457,692	$ 1,127,421	$ 9,585,113
F.A. URBAN	$ 1,541,054	$ 231,146	$ 1,772,200
OTHER	$ 373,490	$ 37,348	$ 410,838
TOTAL	$ 89,954,903	$ 10,449,899	$100,404,802